



# INDIANA STATE BOARD OF EDUCATION

## LOCAL PATHWAY APPLICATION: LOCALLY CREATED PATHWAYS and LOCAL CTE CONCENTRATORS

*Below is the information that schools and districts must provide to the State Board of Education (SBOE) to have a Locally Created Pathway (LCP) or Local CTE Concentrator considered. Applications for both local pathways will be reviewed on a rolling basis. The deadline to submit applications for the 2018-19 school year is October 1, 2018. This application and accompanying rubric may change over time.*

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Directions: Schools and/or districts must submit the application containing the information required below. The District Superintendent and local governing board must sign the application. **All** of the questions below must be answered completely, unless the question is labeled as optional.

Please send your completed application, including the letter of support (or other documentation) from your collaborator and any additional supporting documents, to [Alicia Kieltmovitch](#).

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### NEXT STEPS

1. Upon submission, a Review Team consisting of SBOE staff, and staff from the Commission of Higher Education (CHE), Department of Education (DOE), and Department of Workforce Development (DWD) will conduct an Initial Review.
2. The Initial Review will take at least thirty (30) business days from the receipt of the application. During the Initial Review, the Review Team may request additional information and/or ask clarifying or follow-up questions regarding the application as part of the due diligence process. All responses must be provided within ten (10) business days. In addition, requests for updates and/or changes to the application may be made to strengthen the local pathway.
3. Upon the completion of the Initial Review, SBOE staff will draft a final recommendation for SBOE consideration. The recommendation will be provided to the applicant and SBOE at least one (1) week before the next scheduled Board meeting, pursuant to SBOE Operating Procedures.
4. At the Board meeting, SBOE will approve, table, or reject the local pathway.
  - a. *Approved Local Pathways:* The local pathway joins state's "Graduation Pathways Library" and all Indiana schools may start utilizing the local pathway immediately.
    - If adopted by other districts, the local pathway's model must be the same, though the components (e.g., collaborator or courses) may change.
    - If an adopted pathway differs substantively (e.g., competency or outcomes), the school/district must resubmit the new local pathway for approval using the application below.
    - Schools and districts wishing to adopt an approved local pathway will need to notify the SBOE by filling out the [Adopting an Approved Locally Created Pathway form](#).
    - Schools/districts will present annual reports of local pathway's effectiveness to the Board.



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- b. *Tabled/Rejected local pathways*: SBOE (in addition to DOE, CHE, and DWD) staff will work with applicant over the next two (2) months to address outstanding issues and a new recommendation will be submitted to the SBOE.



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## SCHOOL INFORMATION

School Corporation Name and Number:

**MSD Decatur Township      School Corporation Number - 5300**

Information on School/Corporation Demographics:

School type:

**X Urban**

Total high school enrollment: **2,074**

Anticipated enrollment in Local Pathway: **10**

Point of Contact for Application and Information:

Name: **Chris Duzenbery, Ed.D.**

Position: **Director of College and Career Readiness**

Number: **(317) 856-5265**

Email: **cduzenbery@decaturproud.org**

Contact Info for District Superintendent:

Name: **Matthew Prusiecki, Ph.D.**

Number: **(317) 856-5265**

Email: **mprusiecki@decaturproud.org**

Signature of District Superintendent:

Signature of Local Governing Board Representative:

Type of Local Pathway: **CTE Concentrator**

Title of the Local Pathway: **Commercial and Industrial Construction Pathway**

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## CRITERIA FOR LOCALLY CREATED PATHWAY

- 1) **Criterion 1: Collaboration:** Both the LCPs and Local CTE Concentrators must be developed in collaboration (or partnership) with business & industry, postsecondary education & training providers, and/or community organizations. Additional partners may include other schools/districts, career and technical education centers, and other local partners (e.g., Workforce Investment Boards, Chambers of Commerce, Economic Development Boards, etc.).



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Local CTE Concentrator Pathways **must** align to regional economic needs and high wage and/or high demand data. Data may come from DWD, CHE, INDemand Jobs, Hoosiers by the Numbers, Burning Glass, local economic development boards, or other sources. Those data must be included with the submission of the application. It is recommended that Local CTE Concentrators are developed with local CTE Centers and include a letter of support from the Director.

When possible, the LCP should align to regional economic needs and high wage and/or high demand data.

- a. Who is the collaborator for this local pathway? (Application **must** include at least one external partner). Point of contact and contact information for collaborator(s):
  - Institution of higher education or postsecondary training provider:  
**Organization:** Vincennes University  
**Name/Title:** Jennifer Bozek, Director of Apprenticeships and Business and Industry Training  
**Email:** [jbozek@vinu.edu](mailto:jbozek@vinu.edu)  
**Phone:** (317) 616-8643
  - Industry/Sector Partnership/Business:  
**Organization:** Associated Builders and Contractors (ABC)  
**Name/Title:** J.R. Gaylor, President  
**Email:** [jr@abcindianakentucky.org](mailto:jr@abcindianakentucky.org)  
**Phone:** (317) 596-4950  
  
**Organization:** Associated Builders and Contractors (ABC)  
**Name/Title:** Kyle Bauer, Instructor  
**Email:** [kyle@abcindianakentucky.org](mailto:kyle@abcindianakentucky.org)  
**Phone:** (317) 596-4950
  - Community Organization:  
**Organization:** Indiana Construction Roundtable Foundation  
**Name/Title:** Chris Price, President  
**Email:** [cprice@indianaconstruction.org](mailto:cprice@indianaconstruction.org)  
**Phone:** (317) 805-1037
- b. Are there any additional collaborators? (Optional.)
  - CTE Center:  
**Organization:** Area 31 Career Center  
**Name/Title:** Patrick Biggerstaff, Director of Career and Technical Education  
**Email:** [patrick.biggerstaff@wayne.k12.in.us](mailto:patrick.biggerstaff@wayne.k12.in.us)  
**Phone:** (317) 988-7262



# INDIANA STATE BOARD OF EDUCATION

- c. Describe how the local pathway was developed with the collaborator. (Application **must** include letter(s) of support from partner(s) or other documents demonstrating collaboration in application submission.)

**Decatur Township students have the opportunity to attend Area 31 Career Center to take courses in Construction Trades. These courses focus primarily on residential code and family home builds. The program is extremely popular and there is consistently a lack of available seats in which students can be placed. In an effort to expand the high wage/high demand career opportunities in the construction industry for Decatur Township students beyond residential construction and to provide the students with an opportunity they were not able to get due to the lack of available seats at Area 31, we sought out an opportunity to engage students in the commercial and industrial construction industry. During the spring of the 2015-16 school year a connection was made between an administrator at Decatur Central High School and one of the members of the Associated Builders and Contractors (ABC). Through this contact, a meeting was set with the leadership at ABC to investigate the ABC Construction Prep Academy program and the feasibility of participation by Decatur Township students. A group of interested students were taken on a tour of the facility in the spring of 2016. It was determined that there was interest among the student population in this type of career development program and we would be able to transport the students to the training facility for classes. We contacted Patrick Biggerstaff at Area 31 to request that Construction Trades II be added to the CTE course inventory for Decatur Township in preparation for a second year of students entering the program. During the 2016-17 school year, the first group of students was enrolled in the ABC Prep Academy I class. The students enrolled in the first year of the program were a mixture of juniors and seniors. In the spring of 2017, several juniors secured internship positions they held throughout the summer, and then were hired on as first year apprentices with the employers. These students are enrolled in the ABC Construction Prep Academy II and will complete the first year of an apprenticeship through this program.**

- d. Describe the collaborator's role in the local pathway.

**ABC is the commercial and industrial construction training provider utilizing the NCCER curriculum for the ABC Construction Prep Academy I program and an Apprenticeship for the Prep Academy II program (see attached appendices for course outline/syllabi). ABC provides the facility, instructors, equipment, and field experiences for the training. They also facilitate a job fair and interviewing for summer internships with their member employers.**



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- e. **For Local CTE Concentrators:** Describe how the proposed local pathway is aligned to regional economic needs and high wage and/or high demand data.

**For LCPs:** If applicable, describe how the proposed LCP is aligned to regional economic needs and high wage and/or high demand data.

Regional economic needs and high wage and/or high demand data may include: local current employment (number of jobs opened and/or filled), local occupational outlook (projected openings), or local asset mapping. Cite or include related data or resources in application submission.

**According to data from Build Your Future Indiana, the Construction Industry has a demand for Craft Professionals through 2021 of approximately 97,500. The table below has a breakdown of the occupations, number of jobs available, and the average salary per year.**

<b><i>Craft Professionals Demand through 2021</i></b>		
<b>Occupation</b>	<b>Jobs Available</b>	<b>Average Salary Per Year</b>
Carpenter	27,189	\$51,441
Craft Laborer	24,939	\$29,160
Pipefitter	8,621	\$57,051
Mason	8,114	\$53,061
Heavy Equipment Operator	7,505	\$41,952
Electrician	6,143	\$57,174
Iron Worker	5,835	\$51,740
Roofer	3,367	\$35,290
Boilermaker	2,904	\$56,560
Painter	2,839	\$38,830

Data Courtesy of **Build Your Future Indiana**: <http://indiana.byf.org/>





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The following table is the statewide occupation projections for 2016-2026 in the Construction Industry.  
 Infographic & data courtesy of Department of Workforce Development Research and Analysis Division

## Statewide Occupation Projections (2016-2026)

Indiana's 2016 and projected 2026 employment, job openings, education, training, and wages.

Select Filters:

Search by Occupation Keyword (e.g. Engineer)

Construction

Career Cluster

(All)

Indiana Education Value

(All)

Typical Training

(All)

INDemand Ranking

(All)

Avg. Annual Earnings

\$1

\$273,570



Regional projections coming soon!

Check back Fall 2018 to view occupation projections by Indiana's Economic Growth Regions (EGRs) as displayed on the map.

Occupation	Indiana Education Value	Typical Training	INDemand Rating	Avg. Annual Wage	Growth Openings	Openings from Exits	Openings from Transfers	Total Openings
Construction and Building Inspectors	Certificate/Some college	On-the-job, Moderate	★★★★	\$45,740	185	698	801	1,684
Construction and Related Workers, All Other	High school	On-the-job, Moderate	★★★	N/A	48	191	310	549
Construction Laborers	High school	On-the-job, Short	★★★★	\$38,320	2,400	8,195	15,487	26,082
Construction Managers	Associate's	On-the-job, Moderate	★★★★★	\$84,360	757	1,603	3,108	5,468
First-Line Supervisors of Construction Trades and Extraction Workers	Certificate/Some college	None	★★★★★	\$63,290	1,307	4,009	7,901	13,217
Helpers, Construction Trades, All Other	High school	On-the-job, Short	★★★	\$28,320	74	290	663	1,027
Operating Engineers and Other Construction Equipment Operators	High school	On-the-job, Moderate	★★★★	\$56,840	709	3,333	6,221	10,163
Painters, Construction and Maintenance	High school	On-the-job, Moderate	★★★★	\$41,450	350	2,065	3,018	5,433

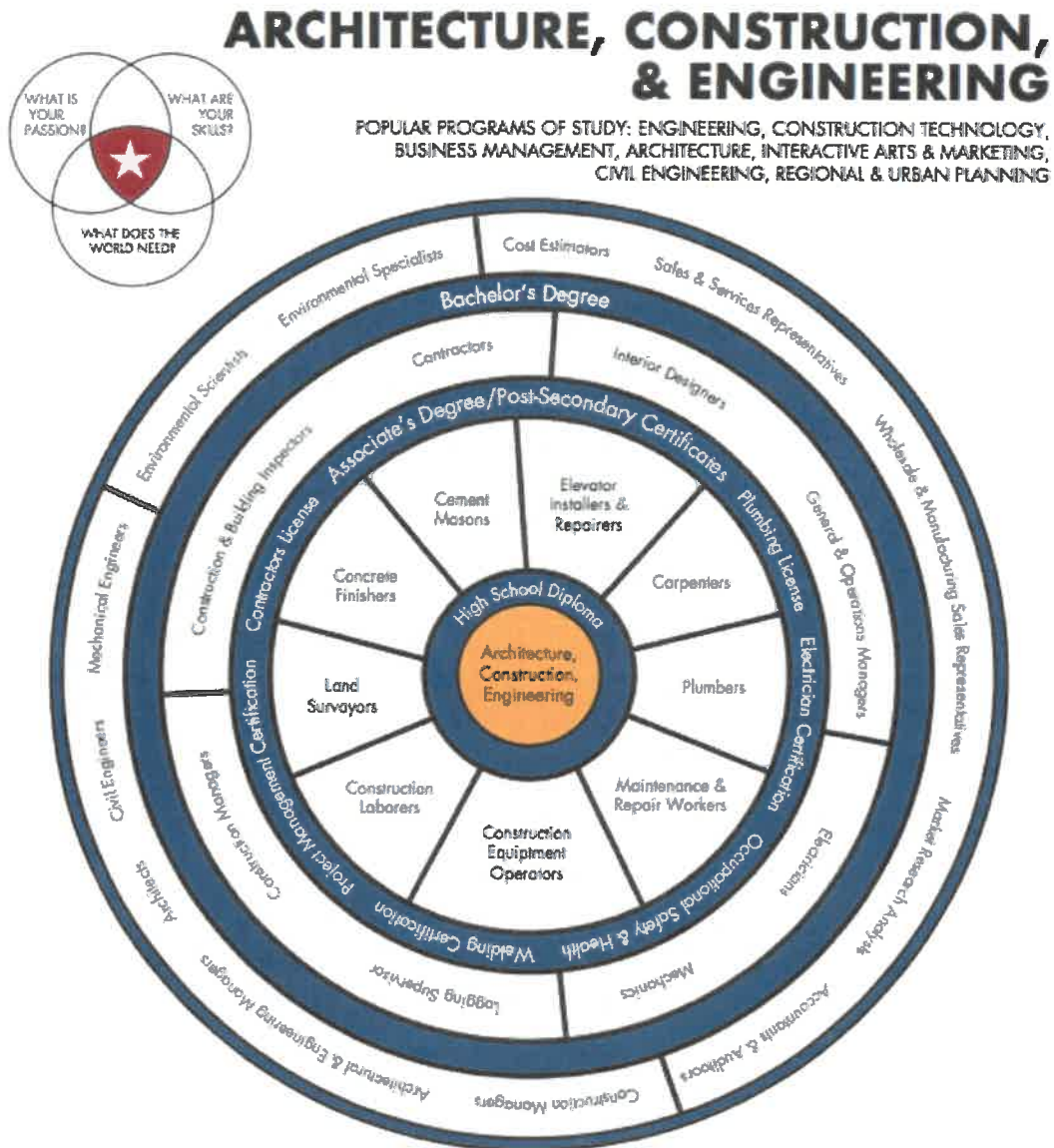
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▪ (317) 232-2000 ▪ [www.in.gov/sboe](http://www.in.gov/sboe) ▪



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The graphic below for Architecture, Construction, and Engineering show jobs and degrees with wage information broken down by degree. Data courtesy of **EmployIndy**: <https://employindy.org/resources/>



## BASIC INFORMATION

\$56,280 : MEDIAN SALARY  
\$40,633 : High School Diploma  
\$56,092 : Certifications  
\$69,820 : Associate's  
\$88,824 : Bachelor's

## TOP COMPANIES

Techtrades  
Next Page  
Gaylor Electric  
**EmployIndy**  
[www.employindy.org](http://www.employindy.org)

## GET INVOLVED

NCARB for Architects  
Jobs for America's Graduates  
Job Ready Indy  
Project Indy  
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- 2) **Criterion 2: Competency:** LCPs must provide students with recognized postsecondary knowledge and skills (e.g., credits, credentials) that prepare students for meaningful postsecondary education/training and/or employment opportunities. Local CTE Concentrator Pathways **must** lead to an industry-recognized credential, technical certification, stackable credits for an associate or bachelor degree, or other meaningful postsecondary education/training and/or employment opportunities.

- a. **For Local CTE Concentrators:** Identify the course titles, codes, and credits that will comprise this pathway and relates to the competency.

**For LCPs:** Describe the LCP's components as related to the competency. (May include but is not limited to: final student work product; course sequence; assessments; or description of the skills and academic knowledge.)

**IDOE Course Title: Construction Trades I (ABC Construction Prep Academy I)**

**Course: Code: 5580**

**Credits: 2 semester course - up to 3 credits per semester**

- **Prep Academy I (11,12):** the curriculum utilized in Year I is aligned with the Indiana Department of Education Academic Standards Content Framework for the Construction Trades I, Course #5580. The course seeks to provide an overview of the various construction trades offered by ABC; therefore, no formal textbook will be utilized for the course. Instead, applicable modules from the National Center for Construction and Education Research (NCCER) curriculum will be applied. These modules are pulled from the Level 1 course within that trade NCCER Curriculum is a competency-based, task-oriented curriculum.

**IDOE Course Title: Construction Trades II (ABC Construction Prep Academy II)**

**Course Code: 5578**

**Credits: 2 semester course - up to 3 credits per semester**

- **Prep Academy II (12):** students will attend the ABC training center one night a week, from 5-9 p.m. Students, having successfully experienced all trades offered by ABC in Year I, will select a trade of interest and enroll as a Level 1 apprentice. This student will also be enrolled as an apprentice with the Department of Labor. By completing Level 1 as a senior, this gives students a one-year head start on their peers, towards becoming a licensed Craft Professional and completing their 4-year apprenticeship program. Students are able to complete internships with ABC member companies as available.

- b. Will this local pathway also fulfill the Employability Skills experience? If so, please explain how. (Optional.)

**Yes, this pathway will fulfill the Employability Skills experience. Students will be required to create and update a resume within Naviance and a digital portfolio (ePortfolio). They will also obtain letters of recommendation for employment and participate in interviews for placement in internships leading to employment with ABC member companies.**



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The students are placed in an internship during the summer between their junior and senior year. The students work for an ABC member employer and engage in on-the-job training. At the conclusion of the internship, students can choose to continue to work with the same company, or interview with another company as they move into the Apprenticeship program.

Through the coursework students will earn Certifications. The students experience each of the construction trade crafts and are engaged in hands-on learning experiences both as individuals and as a team. Between the junior and senior year, students will apply and interview for an internship position and can be employed with a company during the summer. Upon completion of Construction Prep Academy II, students will be ahead of peers enrolled in an apprenticeship program in that they will have completed, the first year (Level 1) of a four-year apprenticeship program.

- c. How will this local pathway add currency for a student's postsecondary endeavors?

Currency will be added for a student's postsecondary endeavors in the following ways:

- 1) Industry specific Field trips
- 2) Authentic Industry Experiences
- 3) Certifications
- 4) Interviewing
- 5) Letters of Recommendation
- 6) Resume
- 7) Employment
- 8) ePortfolio
- 9) College credits
- 10) Associate of Science Career/Tech degree

**Criterion 3: Continuous Improvement:** Both the LCP and Local CTE Concentrator pathway must be evaluated and continuously improved based upon the evaluation at the state and local level. Applicant will serve as a model and point of contact for other districts interested in adopting or creating a similar pathway.

- a. What are the intended outcomes for students who complete this pathway? Please be as specific as possible. (This may include but is not limited to: credentials, certificates, credits, enrollment in a specific institution or program, or employment in a specific sector/industry/occupation.)
- 1) **Certifications.** Students enrolled in ABC Construction Prep Academy I will earn the following certifications:
    - OSHA 10
    - Scissor Lift
    - Forklift
    - Confined Space
    - First Aid/CPR
    - Welding (optional)



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- 2) **Employment.** At the end of the first year of the program, students will participate in a *job fair* and interview for a summer *internship* with an ABC member employer. The students will work during the summer for the ABC member employer and have the opportunity to continue the relationship with this employer into the Level 1 Apprenticeship in the second year of the program (while still in high school).
- 3) **Apprenticeship.** Completion of Construction Prep Academy I will enable the students to pursue an Apprenticeship program of their choice for Prep Academy II. In Prep Academy II, the students are in the first year of a four-year apprenticeship in a particular trade craft where they are also completing coursework in the apprenticeship toward an associates degree. The direct connection between the training and certifications earned and the skills required for success in the industry, ensure the skills and knowledge acquired by the students apply to their postsecondary endeavors.
- 4) **Associate Degree.** A senior Prep Academy student, enrolled in the evening ABC Apprenticeship program (Prep Academy II) will be enrolled in the corresponding Associate Degree program with Vincennes University, based on ABC trade concentration (Electrical, Carpentry, HVAC, Plumbing, Pipefitting and Sheet Metal). The following is an outline of Vincennes University credits earned for the Level 1 ABC Construction trades (credit may be awarded to students employed in the trade earning On-the-Job-Training hours- submitted to ABC):

## Semester 1

ABCC 100	Safety for Construction	1 cr
ABCC 110	Basics for Construction	3 cr
ABCC 120	OJT I	2 cr

## Semester 2

APP 101	(ABC Trade Concentration)	1 cr
APP 111	(ABC Trade Concentration)	3 cr
ABCC 121	OJT II	2 cr

## Semester 3    \*VU General Education Courses\*

MATT 107	Applied Mathematics	3 cr
ENGL 101	English Composition I	3 cr
HLTH 111/112	Apprenticeship First Aid/CPR	2 cr

In addition to ABC course work, the students will enroll in VU general education classes, during the Semester 3 (summer session) which is required for the VU degree plans. These courses are offered at the ABC training locations through Indiana and are tuition free (textbooks are also provided). The following is a complete list of required general education classes for the VU degree. Historically, apprenticeship students enroll in one or two general education classes per academic year, subject to personal discretion and availability.



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## VU General Education Courses

MATT 107	Applied Mathematics	3 cr
ENGL 101	English Composition I	3 cr
ECON 208	Personal Financial Mgmt	3 cr
COMM 148	Interpersonal Communication	3 cr
PHIL 215	Business Ethics	3 cr
GEOS 101	Environmental Science	3 cr
GEOS 100/100L	Earth Science with Lab	4 cr
HLTH 111/112	Apprenticeship First Aid/CPR	2 cr

Senior Prep Academy student who complete the Level 1 and continue on to complete the three additional years of a four-year apprenticeship, including all Vincennes University general education requirements, will earn a 60 credit hour, *Associate of Science Career/Tech degree*.

- b. How will the school and district measure student outcomes? (This may include but is not limited to: data from the Commission for Higher Education, Management Performance Hub, the Department of Workforce Development, employer surveys, or student surveys.)
- 1) ***ePortfolio***. Students who complete the Commercial and Industrial Construction Pathway will complete district designated benchmarks for 21<sup>st</sup> Century Life Ready and Employability skills documented with artifacts and digital badges in an *ePortfolio* that they will be able to have access to for life.  
We will utilize Course Networking (CN) ePortfolio to document and monitor the completion of certificates earned.
  - 2) ***Student Data management system***. We will utilize our student management system to monitor enrollment in the coursework, attendance, and grades.
  - 3) ***Course Completion***. We will track the completion of the ABC Construction Prep Academy I and Prep Academy II courses.
  - 4) ***National Student Clearinghouse***. We will monitor student data received from National Student Clearinghouse on status of student enrollment at the post-secondary level.
  - 5) ***Employment***. We will track the number of students employed at the end of their junior year for a summer internship.
  - 6) ***Apprenticeship Enrollment***. Number of students enrolled in a Level 1 apprenticeship and the type of each apprenticeship.
  - 7) ***Certifications***. Number of completed certifications.
  - 8) ***Senior Graduation Exit Survey***. All seniors will complete a Graduation Exit survey at the end of their senior year in Naviance.



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- c. What process will the school and district have in place to evaluate and continuously improve the pathway based upon that evaluation?
- 1) **Annual meetings with ABC, Indiana Construction Roundtable Foundation, Area 31 Career Center, and Vincennes University to ensure that the curriculum used and the skills taught are meeting the needs of industry demands in all of the construction trade crafts.**
  - 2) **The Pathway Advisory Council meets four times a year to review and assess current programming. The council is comprised of a variety of sector/industry partners, school personnel, community members, students, and parents.**
  - 3) **At the building level, each Small Learning Community (SLC) has a director and a counselor who work with a team of teachers within their SLC. The SLC team will continually monitor the progress of the students from their SLC in each of the pathways.**
- d. Who will serve as the point of contact for other schools/districts interested in replicating this local pathway?
- Name: **Chris Duzenbery, Ed.D.**  
Position: **Director of College and Career Readiness**  
Number: **(317) 856-5265**  
Email: **cduzenbery@decaturproud.org**





# INDIANA STATE BOARD OF EDUCATION

## LOCAL PATHWAY APPLICATION: LOCALLY CREATED PATHWAYS and LOCAL CTE CONCENTRATORS

### APPENDIX A

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#### MSD of Decatur Township Commercial and Industrial Construction Pathway

#### ABC Construction Prep Academy Description Course Curriculum Outline | Course Standards

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#### ABC Curriculum Outline:

##### **5580 Construction Trades I** (grades 11,12)

Associated Builders and Contractors Preparatory Academy (ABC Prep Academy) is an interactive, 2-year program that will allow students to explore the construction industry through a hands-on introductory approach. The goal of this program is to introduce students to various trades within the construction industry and help them determine a career path of interest.

- **Prep Academy I** (grades 11,12): the curriculum utilized in Year I is aligned with the Indiana Department of Education Academic Standards Content Framework for course #5580 Construction Trades I. The course seeks to provide an overview of the various construction trades offered by ABC; therefore, no formal textbook will be utilized for the course. Instead, applicable modules from the National Center for Construction and Education Research (NCCER) curriculum will be applied. These modules are pulled from the Level 1 course within that trade NCCER Curriculum is a competency-based, task-oriented curriculum.
- **Prep Academy II** (grade 12): students will attend the ABC training center one night a week, from 5-9 p.m. Students, having successfully experienced all trades offered by ABC in Prep Academy I, will select a trade of interest and enroll as a Level 1 apprentice. This student will also be enrolled as an apprentice with the Department of Labor. By completing Level 1 as a senior, this gives students a one-year head start on their peers, towards becoming a licensed Craft Professional and completing their 4-year apprenticeship program. Students are able to complete internships with ABC member companies as available.



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## Course Curriculum Sequence for **Prep Academy I** : Construction Trades I      Year I (grades 11,12)

WEEK	CLASS SUBJECT	Certifications
Week 1-2	Intro to Construction	
Week 3-5	Heavy Equipment Operation	
Week 6	OSHA 10	OSHA 10 Certification
Week 7-8	Concrete/Masonry	
Week 9-10	Framing/Roofing	
Week 11	Power Tools	Scissor Lift Certification Forklift Certification
Week 12-13	Carpentry	
Week 14	Business/Project Management	
Week 15-16	Welding	Welding Certification*
Week 17-18	Plumbing/Pipefitting	
Week 19-20	HVAC/Sheet Metal	
Week 21-22	Blueprint Reading	Confined Space
Week 23-24	Soft Skills	
Week 25	Career Fair	
Week 26	Glazing	
Week 27-28	Sprinkler Fitting	First Aid/CPR Certification
Week 29-30	Electrical	
Week 31-32	Interior Finishes	

\* Some students may be eligible to obtain a Welding certification

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## **Prep Academy II**

Year II (grade 12)

Year II students are enrolled in the adult apprenticeship program (Level 1) in the trade of their choosing.

# ABC Construction Prep Academy

## Welcome!

### Mission

ABC Construction Prep Academy will develop each student's academic potential, personal character, and leadership qualities through an academically rigorous and content-rich educational program to prepare all students pursuing careers as Craft Professionals.

### Vision

The ABC Prep Academy vision is to see all high school students graduate from our program as a prepared, diverse community of learners with access to a career in the skilled trades as a Craft Professional. ABC Prep Academy students will collaborate, think critically, and communicate effectively to be able to make connections between themselves, their learning, and the real world. Above all, ABC Prep Academy will empower students to take charge of their future and give them confidence in pursuing a career as a Craft Professional.

### Purpose & Core Values

ABC's Prep Academy seeks to instill the values of merit, performance, and integrity in all students. These values give students a strong foundation upon which to begin their post-secondary education as craft professionals. At ABC Prep Academy, the values of citizenship, cooperation, courage, honesty, integrity, perseverance, respect and responsibility will be identified, modeled, and clearly conveyed. Administrators of the program will encourage, promote, and model these traits so that all students will be encouraged to imitate, practice, and develop these characteristics themselves.

### Academics

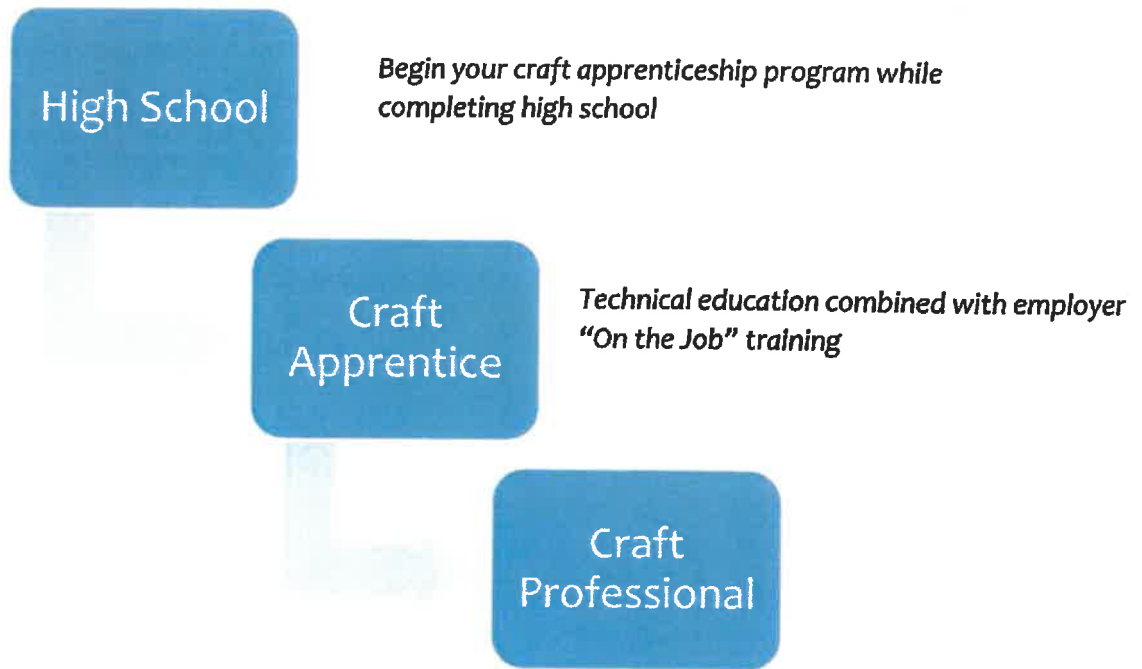
At ABC, we believe in classical education style. Our course combines hands-on experience (through work in our lab and through job site field trips) with book learning. Together, we find this traditional education style is most beneficial to our students. The Prep Academy I course offers students an introduction to the various trades offered by ABC, supplemented with additional safety training certifications and field trips. This course is available for all high school Juniors or Seniors. Juniors who have successfully completed Prep Academy I are eligible to continue with Prep Academy II their senior year. In Prep Academy II, students are enrolled in the Level I apprenticeship program of the trade of their choosing. This gives Prep Academy students a head start on their career as a Craft Professional.

### Why ABC Construction Prep Academy?

- ABC meets the unique needs of high school students
- ABC provides an opportunity for students to experience the trades first hand
- ABC is strongly committed to developing each student in preparing them for a career in construction
- ABC's Prep Academy is another first choice for students who enjoy hands-on learning

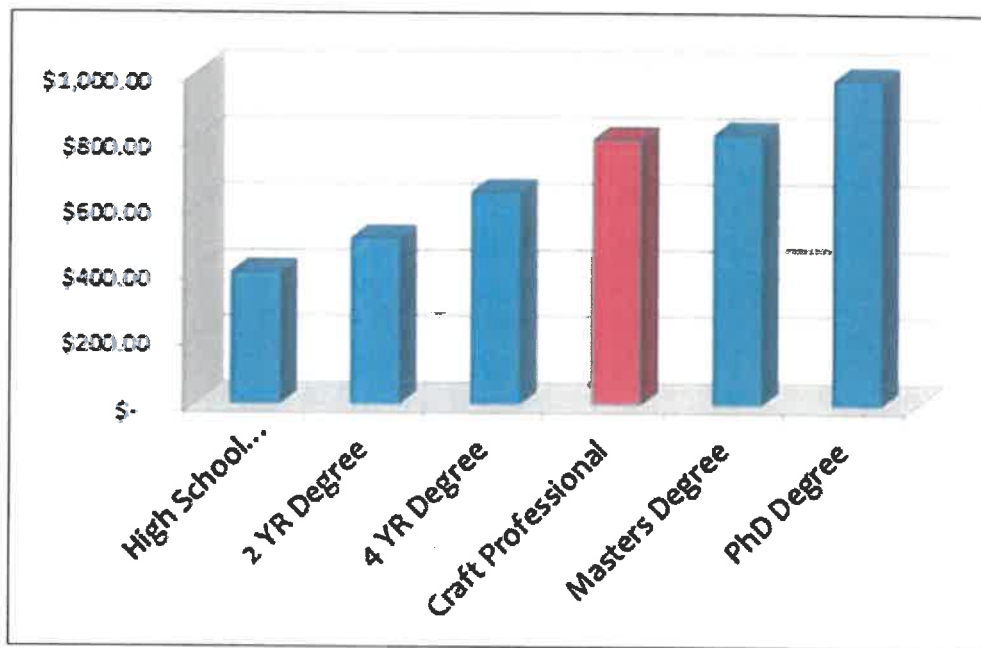
# ABC Construction Prep Academy

## CONSTRUCTION INDUSTRY CAREER PATH



## EARN TO LEARN!

Research shows that apprenticeship training gives construction employees a considerable advantage over those trained by informal means.



Average Weekly Salaries



# Prep Academy I

## Course Outline

### SEMESTER I

1. Rules & Procedures, Relationship Building, Values Clarification, Leadership
2. Careers in Construction: Success as a Craftsman, Project Management, etc.
3. Introduction to Heavy Equipment Operation
4. Introduction to Heavy Equipment: Excavating
5. Cranes and Rigging
6. OSHA 10
7. Concrete
8. Masonry
9. Framing
10. Roofing
11. Scissor Lift Training, Introduction to Power Tools
12. Carpentry
13. Carpentry
14. Construction Business and Project Management
15. Welding
16. Welding

### SEMESTER II

1. Plumbing
2. Pipefitting
3. HVAC
4. Sheet Metal
5. Confined Space Safety Training
6. Construction Drawings, Blueprint Reading
7. Construction Business and Project Management
8. Resumes, Interviews, Soft Skills
9. Career Fair
10. Glazing
11. Sprinkler Fitting
12. First Aid/CPR
13. Electrical
14. Electrical: Power Linemen
15. Interior Finishes
16. Interior Finishes

# Prep Academy I

## Course Descriptions

### SEMESTER I

#### **Week 1: Rules & Procedures, Relationship Building, Values Clarification, Leadership**

*Introduction to the course, rules and procedures, introductory activities, soft skills, safety expectations, etc.*

Course Standards completed:

- NCCER Curriculum:
  - Introduction to Construction Math 00102-15

#### **Week 2: Careers in Construction: Success as a Craftsman, Project Management, etc.**

*Introduction to the variety of careers found within the construction industry, expectations as Craftsmen, construction "Career Ladder"*

Course Standards completed:

- NCCER Curriculum:
  - Basic Communication Skills #00107-15
- IN DOE: CTI 9.1
- Hands-on Experience: Guest Speaker(s) from across the industry will present

#### **Week 3: Introduction to Heavy Equipment Operation**

*Part I of a two-part class reviewing Heavy Equipment Operation.*

Course Standards completed:

- NCCER Curriculum:
  - Orientation to the Trade #22101-12
  - Heavy Equipment Safety #22103-12
- Hands-on Experience: mini-excavator operation

#### **Week 4: Introduction to Heavy Equipment Operation**

*Part II of a two-part class reviewing Heavy Equipment Operation*

Course Standards completed:

- NCCER Curriculum:
  - Identification of Heavy Equipment #22103-12
  - Basic Operation Techniques #22104-12
- Hands-on Experience: Skid-steer operation

#### **Week 5: Introduction to Flooring**

*Introduction to Flooring*

Course Standards completed:

- NCCER Curriculum: *not available; ABC in-house*
- IN DOE: CTI 6.1-6.5
- Observational Experience: Job Site Field Trip, guest speaker

#### **Week 6: OSHA 10 Certification**

*Students will receive their OSHA 10 Certification. Class provided by ABC's Safety and Training Coordinator*

Course Standards completed:

- IN DOE: CTI 1.2, 1.4
- OSHA 10 Certification

#### **Week 7: Concrete**

*Students will learn basic principles of Concrete.*

Course Standards completed:

- NCCER Curriculum:
  - Introduction to Concrete Construction & Finishing #23101
  - Properties of Concrete #23103
- IN DOE: CTI 5.1-5.3
- Observational Experience: Field Trip to *Sagamore Ready Mix Concrete Plant*

#### **Week 8: Masonry**

*Introduction to Masonry*

Course Standards completed:

- NCCER Curriculum:
  - Introduction to Masonry #28101-13
  - Masonry Safety #28106-13
  - Mortar #28104-13
- Hand-on Experience: Guest Speaker(s); students will apply knowledge and techniques shared to a small masonry project

#### **Week 9: Introduction to Framing**

*Students will receive an introduction to Framing*

Course Standards completed:

- NCCER Curriculum:
  - Wall Systems #27111-13
- IN DOE: CTI 7.1 – 7.5
- Observational Experience: Job Site Visit

#### **Week 10: Roofing**

*Students will receive an introduction to Roofing*

Course Standards completed:

- NCCER Curriculum: *not available; ABC in-house*
- Hands-on Experience: Guest Speaker; students will apply knowledge and techniques shared to a basic roofing project

### **Week 11: Scissor Lift, Introduction to Power Tools**

*Students will receive their Scissor Lift certification from ABC's Safety and Training Coordinator. Students will receive formal instruction on basic Power and Hand tools.*

Course Standards completed:

- NCCER Curriculum:
  - Power Tools #00104-15
  - Hand Tools #00103-15
- IN DOE: CTI 1.1, CTI 2.1-2.4
- Scissor Lift Certification
- Observational Experience: Field Trip to Hilti Facility

### **Week 12: Carpentry**

*Part I of a two-part series introducing the students to Carpentry*

Course Standards completed:

- NCCER Curriculum:
  - Orientation to the Trade #27101-13
  - Hand and Power Tools #27103-13
- IN DOE: CTI 8.1-8.6

### **Week 13: Carpentry**

*Part II of a two-part series introducing the students to Carpentry.*

Course Standards completed:

- NCCER Curriculum:
  - Introduction to Construction Drawings, Specifications, Layout #27104-13
- Hands-on Experience: Guest Speaker(s); students will apply knowledge and techniques shared to a small carpentry project

### **Week 14: Construction Business and Project Management**

*Part I of a two-part series introducing students to construction business and basic project management techniques*

Course Standards completed:

- Guest Speaker(s): Project Manager, Project Estimator

### **Week 15: Welding**

*Part I of a two-part introduction to Welding*

Course Standards completed:

- NCCER Curriculum:
  - Welding Safety #29101-15
  - Weld Quality #29106-15
  - Base Metal Preparation #29105-15
- Hands-on Experience: Guest Speaker; students will apply knowledge and techniques shared to a small welding project

### **Week 16: Welding**

*Part II of a two-part introduction to Welding.*

Course Standards completed:

- Hands-on Experience: Guest Speaker; welding project continued

## **SEMESTER II**

### **Week 1: Plumbing**

*Introduction to Plumbing*

Course Standards completed:

- NCCER Curriculum:
  - Introduction to the Plumbing Profession #02101-12
  - Tools of the Plumbing Trade #02103-12
- Hands-on Experience: Guest Speaker(s); students will apply knowledge and techniques shared to a small plumbing project

### **Week 2: Pipefitting**

*Introduction to Pipefitting*

Course Standards completed:

- NCCER Curriculum:
  - Orientation to the Trade #08101-06
  - Pipefitting Power Tools #08103-06
- Hands-on Experience: Guest Speaker (s); students will apply knowledge and techniques shared to a small pipefitting project

### **Week 3: HVAC**

*Introduction to HVAC*

Course Standards completed:

- NCCER Curriculum:
  - Introduction to HVAC #03101-13
  - Introduction to Air Distribution #03109-13
  - Sheet Metal Duct Systems #03213-13
- Hands-on Experience: Guest Speakers(s); students will apply knowledge and techniques shared to a small HVAC project



## **Week 4: Sheet Metal**

### *Introduction to Sheet Metal*

Course Standards completed:

- NCCER:
  - Introduction to the Sheet Metal Trade #04101-08
  - Insulation #04108-08
  - Installation of Duct Work #04106-08
- Hands-on Experience: Guest Speaker (s); students will apply knowledge and techniques shared to a small sheet metal project

## **Week 5: Confined Space Safety Training**

*Students will complete a Confined Space Safety Training. Class provided by ABC's Safety and Training Coordinator*

Course Standards completed:

- Confined Space Safety Training

## **Week 6: Construction Drawings, Blueprint Reading, Site Preparation**

*Introduction to site work evaluation, construction drawings, and blueprint reading*

- NCCER Curriculum:
  - Introduction to Construction Drawings 00105-15
- IN DOE: CTI 4.1-4.7, CTI 3.3
- Hands-on Experience: Students will complete a small, blueprint project

## **Week 7: Construction Business and Project Management**

*Part II of a two-part series introducing students to construction business and basic project management techniques*

Course Standards completed:

- IN DOE: CTI 3.1-3.3, 3.4
- Guest Speaker(s): Project Manager, Project Estimator

## **Week 8: Resumes, Interviews**

*Students will prepare for the upcoming career fair by working on resume writing and mock interviews*

Course Standards completed:

- IN DOE:
- Hands-on Experience: Students will prepare their resume

## **Week 9: Career Fair with ABC Member Companies**

*Students will participate in an official career fair, hosted at ABC, to connect students with member companies for a summer internship.*

## **Week 10: Glazing**

### *Introduction to Glazing*

#### **Course Standards completed:**

- Course adapted from in-house glazing program with Architectural Glass & Metal \*
- Observational Experience: Fieldtrip to Architectural Glass & Metal Fabrication shop

\*No NCCER Curriculum or IN DOE available for this trade

## **Week 11: Sprinkler Fitting**

### *Introduction to Sprinkler Fitting*

#### **Course Standards completed:**

- NCCER Curriculum:
  - Orientation to the Trade #18101-13
  - Wet Fire Sprinkler Systems #18206
- Hands-on Experience: Guest Speaker; students will apply knowledge and techniques shared to a small sprinkler fitting project

## **Week 12: First Aid/CPR**

*Students will complete First Aid/CPR training and certification. Class provided by ABC's Safety and Training Coordinator*

#### **Course Standards Completed:**

- First Aid/CPR Certification
- IN DOE: CTI 1.3

## **Week 13: Electrical**

### *Part I of a two-part introduction to Electrical*

#### **Course Standards completed:**

- NCCER Curriculum:
  - Orientation to the Electrical Trade #26101-14
  - Residential Electrical Services #26111-14
  - Hand Bending #26107-14
- Hands-on Experience: Guest Speaker

## **Week 14: Electrical- Power Lineman**

### *Part II of a two-part introduction to Electrical, with a focus on Power Lineman training*

#### **Course Standards completed:**

- NCCER Curriculum:
    - Climbing Wooden Poles #49105-11
    - Power Line Worker Safety #49102-11
  - Hands-on Experience: Students will have the opportunity to climb in ABC's pole yard
- \*low height climbs will be enforced for safety purposes

## **Week 15: Interior Finishes**

### *Part I of a two-part introduction to Interior Finishes*

#### **Course Standards completed:**

- NCCER Curriculum:
  - Orientation to the Trade #45101-07
  - Drywall Installation #45104-07
  - Interior Specialties #45204-08
- Observational Experience: Field Trip to Fredericks, Inc., Contractors Cabinetry Shop

## **Week 16: Interior Finishes**

### *Part II of a two-part introduction to Interior Finishes*

#### **Course Standards completed:**

- NCCER Curriculum:
  - Acoustical Ceilings #45203-08
  - Specialty Finishes #45206-08

### **Notes on the Course:**

1. *“Observational Experiences” (i.e. field trips) will be added throughout the year as job site visits become available. Please note that “Hands-on Experience” and “Observational Experience” opportunities are subject to change due to circumstance, such as weather; however, each week will include either a “Hands-on Experience” or an “Observational Experience.”*
2. Prep Academy I meets all requirements of the Indiana Department of Education for “Construction Trades I” (DOE Code 5580) and utilizes NCCER Curriculum (Level 1) as a guide for trade-specific learning.

## CONSTRUCTION TRADES I

*Construction Technology I* focuses on classroom and laboratory experiences involving the formation, installation, maintenance, and repair of buildings, homes, and other structures. A history of construction, with an emphasis on future trends and career options will also be covered. This course provides instruction in reading technical drawings and transforming those drawings into physical structures. The relationship of views and details, interpretation of dimension, transposing scale, tolerance, electrical symbols, sections, materials list, architectural plans, geometric construction, three dimensional drawing techniques, and sketching will be presented as well as elementary aspects of residential design and site work. Areas of emphasis will include print reading and drawing, room schedules and plot plans. Students will examine the design and construction of floor and wall systems and develop layout and floor construction skills. Blueprints and other professional planning documents will also be covered. Instruction will be given in the following areas, administrative requirements, definitions, building planning, foundations, wall coverings, roof/ceiling construction, and roof assemblies. Students will develop an understanding and interpretation of the Indiana Residential Code for one and two-family dwellings and safety practices including Occupational Safety and Health Administration's Safety & Health Standards for the construction industry.

- DOE Code: 5580
- Recommended Grade Level: Grade 11-12
- Recommended Prerequisites: Introduction to Construction
- Credits: 2-3 credits per semesters, maximum of 6 credits
- Counts as a Directed Elective or Elective for the General, Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas
- This course is aligned with postsecondary courses for Dual Credit:
  - Ivy Tech
    - CONT 101 – Introduction to Construction
    - CONT 106 – Construction Blueprint Reading
    - BCOT 104 – Floor and Wall Layout
  - Vincennes University
    - CNST 120 – Construction Safety
    - CNST 261 – Indiana Residential Code for One- and Two-Family Dwellings
    - ARCH 102 – Architectural Drafting/Print Reading

### Dual Credit

This course provides the opportunity for dual credit for students who meet postsecondary requirements for earning dual credit and successfully complete the dual credit requirements of this course.

### Application of Content and Multiple Hour Offerings

Intensive laboratory applications are a component of this course and may be either school based or work based or a combination of the two. Work-based learning experiences should be in a closely related industry setting. Instructors shall have a standards-based training plan for students participating in work-based learning experiences. When a course is offered for multiple hours per semester, the amount of laboratory application or work-based learning needs to be increased proportionally.

### **Career and Technical Student Organizations (CTSOs)**

Career and Technical Student Organizations are considered a powerful instructional tool when integrated into Career and Technical Education programs. They enhance the knowledge and skills students learn in a course by allowing a student to participate in a unique program of career and leadership development. Students should be encouraged to participate in SkillsUSA, the CTSO for this area.

## **Content Standards**

### **Domain – Safety**

**Core Standard 1** Students integrate basic shop and workplace safety concepts into classroom activities and projects.

#### **Standards**

- CTI-1.1 Demonstrate safe practices and procedures with power and hand tools
- CTI-1.2 Demonstrate an understanding of basic shop and workplace safety in compliance with OSHA standards
- CTI-1.3 Perform basic first aid procedures
- CTI-1.4 Interpret health, safety, and welfare standards as dictated by local, state, or federal agencies, in relation to shop/work site safety

### **Domain – Tools**

**Core Standard 2** Students utilize the appropriate hand, power, and stationary tools to complete various components of a building project.

#### **Standards**

- CTI-2.1 Use basic construction hand tools
- CTI-2.2 Demonstrate the proper use of portable power tools
- CTI-2.3 Demonstrate the proper set-up and use of stationary power tools
- CTI-2.4 Set up and properly use levels and transits

### **Domain – Plans, Specifications, and Codes**

**Core Standard 3** Students interpret data from plans, specifications and codes to construct various structures.

#### **Standards**

- CTI-3.1 Interpret plans, specifications, codes, and welfare standards as dictated by local, state, or federal agencies
- CTI-3.2 Apply the use of construction tools in the creation of a lab project built to plans or specifications
- CTI-3.3 Identify the types of architectural lines, symbols, notations, and abbreviations used in print reading
- CTI-3.4 Evaluate technical problems and information in relation to appropriate project levels

### **Domain – Construction Blueprint Reading**

**Core Standard 4** Students interpret residential and light commercial construction blueprints to construct structures.

#### **Standards**

- CTI-4.1 Interpret health, safety, and welfare standards as dictated by local, state, or federal agencies



- CTI-4.2 Identify the types of architectural lines, symbols, notations, and abbreviations used in print reading
- CTI-4.3 Identify types of drawings such as elevation views, section views, detail views, and construction materials
- CTI-4.4 Verify the ability to understand and explain building specifications, define dimensioning standards, and the ability to read various scales used in print reading
- CTI-4.5 Apply and adapt knowledge and skills in reading blueprints for structural information
- CTI-4.6 Apply and adapt the knowledge and skills in reading various plot plans, and reading blueprints for various trade information
- CTI-4.7 Apply and adapt systems concepts and knowledge to residential and light commercial technologies

#### **Domain – Floor and Wall Layout Construction**

**Core Standard 5** Students evaluate quantities and strength of concrete and masonry materials to perform floor and wall installations.

##### **Standards**

- CTI-5.1 Create openings for access and equipment to pass through in foundation walls and basement walls
- CTI-5.2 Choose the proper tools for pouring and finishing concrete flatwork
- CTI-5.3 Establish proper foundation corners for a structure based on blueprints and use those corners to install walls

**Core Standard 6** Students construct floor framing as dictated by local, state, or federal regulation.

##### **Standards**

- CTI-6.1 Select the proper tools and material for layout in construction of a floor system
- CTI-6.2 Apply and adapt methods used in laying out floor framing systems
- CTI-6.3 Apply and adapt knowledge of floor framing systems by listing all required components and describing their functions
- CTI-6.4 Describe the sub-assemblies, which make up the floor layout
- CTI-6.5 Create a floor system in accordance with proper construction procedures and practices

**Core Standard 7** Students construct wall framing as dictated by local, state, or federal regulation.

##### **Standards**

- CTI-7.1 Select the proper tools and material for layout in construction of a wall system
- CTI-7.2 Apply and adapt methods used in laying out wall framing systems
- CTI-7.3 Apply and adapt knowledge of wall framing systems by listing all required components and describing their functions
- CTI-7.4 Describe the sub-assemblies, which make up the wall layout
- CTI-7.5 Create a wall system in accordance with proper construction procedures and practices

**Core Standard 8** Students apply concepts and basic skills in practical residential construction projects to layout a stairway.

##### **Standards**

- CTI-8.1 Design and layout a stairway using the framing square and match applicable to stair construction

- CTI-8.2 Practice safety habits- as required by the trade and OSHA- at all times
- CTI-8.3 Apply and adapt new building technology skills and knowledge in the workplace in reasoning, reading, writing, and mathematics with knowledge in construction principle's and concepts
- CTI-8.4 Apply and adapt knowledge of building structure, materials, and methods of construction. Read blueprints, interpret drawings, understand specifications, and work within tolerance
- CTI-8.5 Find, read and interpret technical manuals, specifications, prints, diagrams, charts, codes, architectural data, and architectural drawings
- CTI-8.6 Interpret health, safety, and welfare standards as dictated by local, state, or federal agencies

**Core Standard 9** Students establish communication skills to properly identify ideas and concepts in floor and wall layout construction.

**Standards**

- CTI-9.1 Communicate verbally with others clearly, concisely, and convincingly



# **INDIANA STATE BOARD OF EDUCATION**

## **LOCAL PATHWAY APPLICATION: LOCALLY CREATED PATHWAYS and LOCAL CTE CONCENTRATORS**

### **APPENDIX B**

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**MSD of Decatur Township  
Commercial and Industrial Construction Pathway**

#### **Letters of Support**

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The following letters of support were provided to the MSD of Decatur Township in support of the Commercial and Industrial Construction Locally Created Pathway. Letters were received from the industry collaborating partner, the higher education partner, community organization partner, and the career center partner.

**Industry Collaborating Partner – J.R. Gaylor, President of Associated Builders and Contractors (ABC)**

**Higher Education Partner – Jennifer Bozek, Director of Apprenticeships and Business and Industry Training, Vincennes University**

**Community Organization – Mike Thibideau, Director of Workforce Partnerships of the Indiana Construction Roundtable Foundation**

**CTE Center – Patrick Biggerstaff, Director of Area 31 Career Programs and Early College Career Center**



Associated Builders  
and Contractors, Inc.  
Indiana/Kentucky  
Chapter

August 31, 2018

MSD of Decatur Township

Dr. Chris Duzenbery:

This letter is to affirm what we believe to be an excellent partnership with your school corporation that is already demonstrating successes for all parties, but particularly the students. As your collaborating construction industry partner, we fully support the efforts to create your Locally Created Pathway.

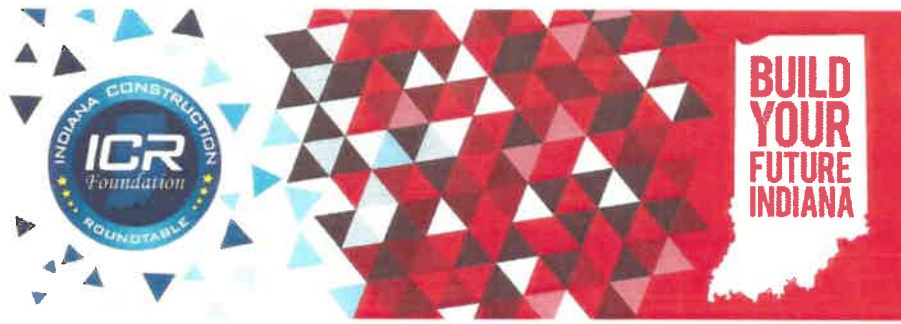
We also believe the ABC Prep Academy is a unique graduation pathway mutually developed with you that incorporates all the key elements of skill development, learning competencies, employer connection through internships and opportunities for formal apprenticeships.

With the Indiana Department of Workforce Development designating the construction industry as a High Wage/High Demand, the career opportunities are extraordinary.

Sincerely,

A handwritten signature in black ink that reads "J.R. Gaylor". The signature is written in a cursive, flowing style.

J.R. Gaylor, President



August 28<sup>th</sup>, 2018

Dear Department of Education,

I am writing to express the Indiana Construction Roundtable Foundation's (ICRF) support for the created of a construction pathway at MSD Decatur. As Director of Workforce Partnerships for the ICRF, I am invested in relationships with school corporations throughout the state of Indiana. The mission of the ICRF is to inform, encourage, and empower individuals to pursue careers in the construction industry and related fields. We view MSD Decatur as a leader in these efforts, and applaud their innovative efforts to connect industry with education.

I hope you will provide MSD Decatur serious consideration as it is deserving of this opportunity for students and industry.

Please contact our offices if any additional information is needed.

Best,

*Michael Thibideau*

Mike Thibideau

Director of Workforce Partnerships  
Indiana Construction Roundtable Foundation  
8909 Purdue Rd. Suite 130,  
Indianapolis, IN 46268  
Phone: (317)686-2669  
Cell: (248)613-4320  
[Indiana.BYF.org](http://Indiana.BYF.org)





Area31CareerCenter.com ● 1200 N. Girls School Rd. ● Indianapolis, IN 46214  
Phone: (317) 988-7230 ● Fax: (317) 988-7298

September 1, 2018

Greetings:

I am writing to express my support for the MSD Decatur Township **Commercial and Industrial Construction Pathway**. This Locally Created Pathway was designed through a collaborative effort between Associated Builders and Contractors, Inc. (ABC) and the MSD of Decatur Township. Having personally discussed program experiences with contacts from ABC, Decatur Township, Vincennes University, the Indiana Department of Workforce Development, and current employer partners, I strongly believe that the Commercial and Industrial Construction Pathway will help to meet central Indiana's workforce needs.

Furthermore, the associate degree-granting ABC apprenticeship program has been found to offer the knowledge, practical skills, and industry certifications necessary to help local students secure employment in high wage, high demand construction industries. In fact, most students participate in Work-Based Learning experiences during the summer between their junior and senior year of high school, and then they retain their employment as they progress through the paid apprenticeship program. The ABC apprenticeship program is clearly paying dividends for both student learners and local employers.

Thank you for your consideration of the MSD of Decatur Township Commercial and Industrial Construction Pathway. Your support of this proposal will provide opportunities for students to pursue their career interests while also supporting the multitude of industries affected by commercial and industrial construction. I believe that this pathway should be approved and expanded throughout our central Indiana community. Thank you, again, for your consideration.

Respectfully,

Patrick A. Biggerstaff, Director  
Area 31 Career Programs  
Early College Career Center



# **INDIANA STATE BOARD OF EDUCATION**

## **LOCAL PATHWAY APPLICATION: LOCALLY CREATED PATHWAYS and LOCAL CTE CONCENTRATORS**

### **APPENDIX C**

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**MSD of Decatur Township  
Commercial and Industrial Construction Pathway**

**Memorandum of Understanding  
Between Associated Builders and Contractors of Indiana/Kentucky and  
MSD of Decatur Township**

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**The following is a Memorandum of Understanding between ABC and the MSD of Decatur Township**





**MEMORANDUM OF UNDERSTANDING  
BETWEEN  
ASSOCIATED BUILDERS AND CONTRACTORS OF INDIANA/KENTUCKY  
AND  
MSD OF DECATUR TOWNSHIP**

***Purpose***

The purpose of this memorandum of understanding is to identify the roles, responsibilities and working agreements established by Associated Builders and Contractors of Indiana/Kentucky (ABC) and MSD of Decatur Township for the 2018-2019 school year.

ABC's Construction Preparatory Academy (Prep Academy) is an interactive program that will allow students to explore the construction industry through a hands-on Introductory approach. The goal of this program is to introduce students to various areas of the construction industry and help them determine a career path of interest.

***Curriculum***

The curriculum utilized in the Prep Academy for 1<sup>st</sup> year students will be the prescribed curriculum of the Indiana Department of Education Academic Standards Content Framework for the Construction Trades, Course #5580. In lieu of a formal textbook, applicable modules from The National Center for Construction Education Research (NCCER) will be applied. Modules are acquired from the Level 1 course book for that trade. NCCER is a competency-based, task-oriented curriculum.

First year students will attend a class at the ABC training center located at 5001 N. Shadeland Ave, Monday through Friday in the afternoon session (11:30 a.m. – 2:00 p.m.) They will be taught by a licensed teacher, with NCCER certifications (OSHA 10, etc.) provided by an NCCER certified Instructor.

Second-year students (who have successfully completed the 1<sup>st</sup> year Prep Academy course) will either attend the ABC training center one night per week, from 5-9 p.m., for their NCCER Level 1 apprenticeship training OR will be enrolled the AWS Welding course, which meets M-F (time to be determined, based on students participating). The AWS Welding course will be taught by a licensed teacher.

***Roles and Responsibilities***

ABC will agree to carry out the following roles and responsibilities to accomplish the goals of this program.

- 1<sup>st</sup> year MSD of Decatur Township students will attend class on the designated dates and times listed above.
- All Prep I classes will take place at ABC (5001 N. Shadeland Ave) unless otherwise specified (i.e. field trip).
- 2<sup>nd</sup> year Prep Academy students will attend 1 evening (TBD) per week for 4 hours. Students enrolled in a trade class cannot miss more than 8 hours per semester.
- All Prep II classes (apprenticeship and welding) will take place at ABC (5001 N. Shadeland Ave).
- Provide one or more instructors to facilitate learning that is/are journey-level in their trade.

- Provide materials as needed
- Provide all equipment, materials and Personal Protective Equipment (PPE) necessary for the hands-on activities.\*This excludes steel-toed boots, which students will need to purchase for the course
- Supervise students and follow all safety practices.
- Notify MSD of Decatur Township at least one week in advance of any special activity such as field trips. Class period field trips would be used as a supplement to laboratory activities for students to visit an actual work site and school notification will be provided per school policy. Unless otherwise notified, field trips will not exceed the class period.
- Provide guest speakers in the construction trades.
- Facilitate a hiring fair in the spring to assist students in finding summer internships (all students) or full-time hire (seniors only).
- Provide OSHA 10 training, Scissor Lift, and First Aid/CPR certifications to first year students, and any second-year students that did not receive training previously.
- Maintain student records, grades, and apprenticeship status with the Department of Labor.

MSD of Decatur Township will agree to carry out the following roles and responsibilities to accomplish the goals of this program.

- Enroll:
  - Available students.
- Pay ABC a per student fee:
  - \$1,500 per student per school year.
- Provide, arrange or approve transportation of students to any scheduled field trips.
- Assist students completing summer internships in obtaining a work permit.

### ***Student Discipline***

In the event of behavioral, attendance or other problems with students enrolled in the Prep Academy while at ABC or on a field trip, MSD of Decatur Township and/or ABC will collaborate in regards to long-term disciplinary measures, including expulsion from the program. If immediate steps need to be taken, either entity may directly suspend a student, pending further discussion between ABC and MSD of Decatur Township

### ***Grading***

ABC has established the following grading policy for the 2018-2019 school year:

1. Prep I: each course module is worth 20 points: Participation (10 pts), quizzes (5 points), and performance (5 pts). Grades will be submitted with the completion of each module so progress is clearly tracked. Certifications (i.e. OSHA 10) will be graded as "Complete" (20/20 pts) if the credential is earned and "Incomplete" (10/20) if the is not earned.
2. Prep II Apprenticeship: students will be graded following the apprenticeship grading standard. Grades will be submitted to Fishers following each module of completion. Students may not miss more than 8 hours of class per semester (ABC Apprenticeship Standard).

### ***Insurance***

Associated Builders and Contractors of Indiana/Kentucky will certify to MSD of Decatur Township that it carries appropriate liability insurance covering the facility, it's instructors and the high school portions of the ABC program that are conducted at the ABC Facility. MSD of Decatur Township will certify to ABC that it carries appropriate insurance covering students for this program.

### **Indemnification**

MSD of Decatur Township and the Associated Builders & Contractors agree to hold each other harmless from any claims arising out of the negligence of their respective employees.

### **Marketing of Prep Academy**

MSD of Decatur Township and ABC will each have the right to market and showcase the Prep Academy in traditional marketing and promotional materials as well as social media with the written consent of the student.

All documents created by and/or on behalf of ABC will remain the property of ABC.

Signatures:

#### **Associated Builders and Contractors of Indiana/Kentucky**

By: JP Dayton

Title: President

Date: 8/1/18

#### **Decatur Central High School**

By: [Signature]

Title: Principal

Date: 7/19/18

#### **Decatur Township School for Excellence**

By: [Signature]

Title: Principal

Date: 7-25-18

#### **MSD of Decatur Township**

By: [Signature]

Title: Director of College and Career Readiness

Date: 7/15/18



# INDIANA STATE BOARD OF EDUCATION

## LOCAL PATHWAY APPLICATION: LOCALLY CREATED PATHWAYS and LOCAL CTE CONCENTRATORS

### APPENDIX D

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MSD of Decatur Township  
Commercial and Industrial Construction Pathway

#### Model of Apprenticeship

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The following documents in this appendix describe the Associated Builders and Contractors (ABC) Apprenticeship program.

# Start Building Your Career **TODAY!**

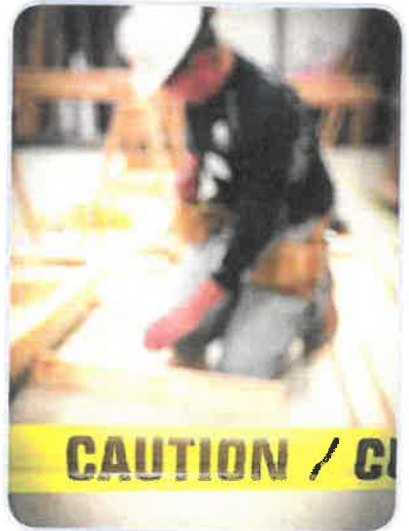
**ABC's APPRENTICESHIP PROGRAM IS CERTIFIED BY THE FEDERAL DEPARTMENT OF LABOR BUREAU OF APPRENTICESHIP AND TRAINING BY THE NATIONAL CENTER FOR CONSTRUCTION EDUCATION AND RESEARCH.**

*After completing the curricula and the 8,000 hours of OJLs, graduates receive their Craft Professional card and are registered with the U.S. Department of Labor*



*"The ABC Apprenticeship program provided and continues to provide me with crucial knowledge and skills, which have made me an electrician and have even propelled me into owning my own electrical contract company."*

*- Pawel David, David Electric Service*



## **APPRENTICESHIP PROGRAMS**

Carpentry  
Electrical  
Glazier  
HVAC  
Lineman  
Pipefitting  
Plumbing  
Roofing  
Sheet Metal  
Welding  
& more!

## **TRAINING FACILITY**

5001 N. Shadeland Avenue  
Indianapolis, IN 46226  
(317) 596-4960



For more info about our programs, contact:  
**ANDY KLISE**  
(317) 596-4950 ext. 115  
[andy@abcindianakentucky.org](mailto:andy@abcindianakentucky.org)



## CLASSROOM HOURS

Apprentices in most trades meet one night per week and are required to complete three hours of online homework each week. Computer access is required. ABC does offer a computer lab that can be used to meet this requirement.

*Pipefitting, Roofing, Sheet Metal and Welding do not have online homework; therefore, they meet two evenings per week.*

Classes at most locations meet from 5:00 – 9:00 pm. An apprentice can miss a total of eight hours per semester.

## REGISTRATION/TUITION

Registration for the school year starts in the spring prior to class attendance and will be taken up to two weeks prior to the class starting. The school year runs September to May. The school year is broken into two semesters with a Christmas break. Any days missed due to weather will be made up. **An apprentice is required to be 18 years old and have either a High School Diploma or GED.**

Tuition runs approximately \$1700 per school year. The tuition is billed in two separate billings (1st and 2nd semester) per school year. The tuition is inclusive of all materials and classes, including text books and Vincennes classes and books.

*ABC does not offer financial assistance and is not covered by most federal state tuition assistance programs. ABC will work with you to develop a payment plan that meets your needs.*

## VINCENNES UNIVERSITY

All Indiana apprentices in a 4-year program are encouraged to complete an Associate of Applied Science degree from Vincennes University. The VU classes are taught during the last six weeks of the school year. They meet one night per week, from 5-9 p.m., in the same location as the trade classes. The day of the week an apprentice attends class may change. The General Education required classes for the degree are: English, Communications, Environmental Science and Personal Finance.



## ON THE JOB LEARNING (OJL)

On the Job Learning hours are a required component of successful completion of the ABC Apprenticeship program. Four-year training programs require 8,000 OJL hours, three year training programs require 6,000 OJL hours and two year programs require 4,000 hours to successfully complete the program. OJL hours are paid according to Department of Labor Standards. OJL hours are turned in monthly for tracking purposes. These are also used to determine when the apprentice is eligible for a pay increase according to the DOL.

Employment in the field of training is up to the apprentice. ABC does not place you in a job. If an apprentice begins classes and not working in their training trade, the coordinator will request that a resume be submitted that will be forwarded to member companies in that trade. All hiring decisions are left up to the company! There is no guarantee that a member company will hire an apprentice and there are no other job placement services offered by ABC.

# MODEL OF APPRENTICESHIP

## 2016 INDIANA SECTORS SUMMIT

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Associated Builders &  
Contractors of Indiana/Kentucky





# WHAT IS ABC?

- National construction industry trade association
- 70 chapters
- 21,000 chapter members
- Voice of the merit shop
- Leader in apprenticeship & craft training

## Mission

Develop people, win work, and deliver that work safely, ethically, and profitably for the betterment of communities in which ABC and its members work!



# ABC Apprenticeship Defined

- Employed in the craft
- Earning a wage
- Learning\*
  - craft knowledge (classroom)
  - craft skills (on-the-job)

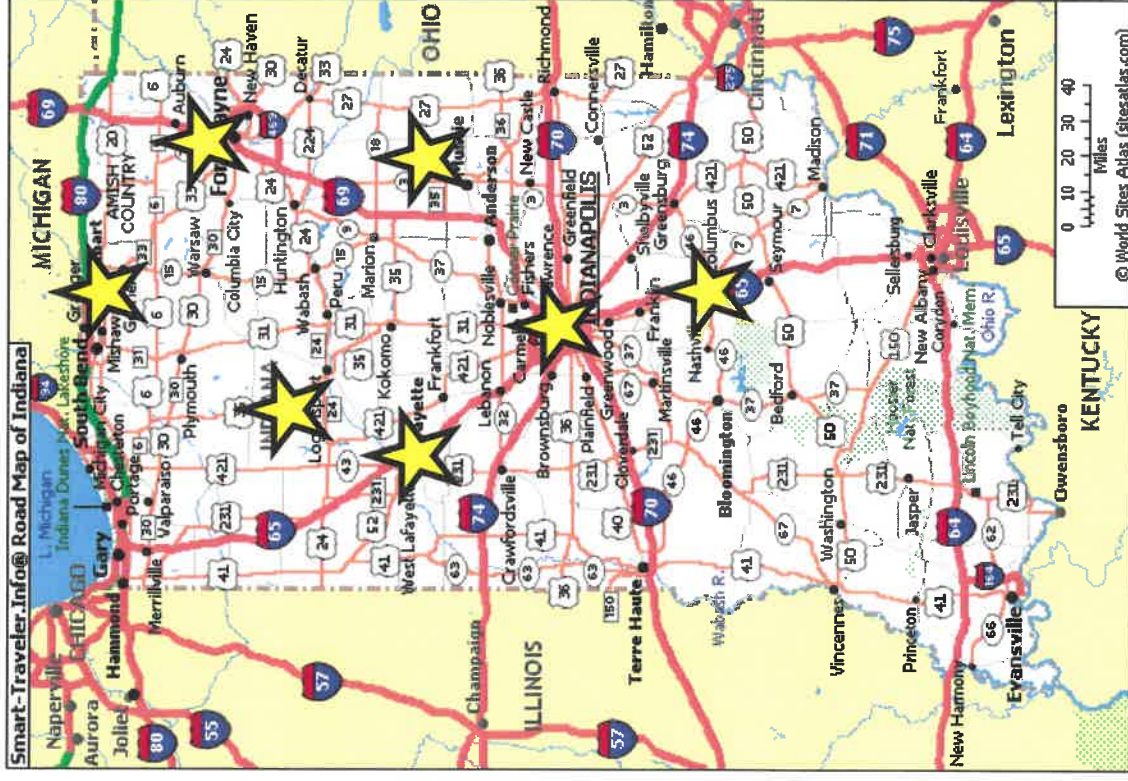


\*Program partially funded by Workforce Development Grant

\*\*Tuition costs range from \$1,300 to \$1,800 per year

\*\*\*Approximately 95% of ABC training companies pick up the training costs

# Apprenticeship Program Centers



- Elkhart
- Ft. Wayne
- Logansport
- Lafayette
- Muncie
- Columbus
- Indianapolis

Kentucky  
Bowling Green \* Lexington  
Louisville \* Owensboro

# 23 Apprenticeship Crafts

- Boilermaker - \$58,856
- Bricklayer
- Building Maintenance
- Repairer
- Carpenter - \$54,147
- Construction Craft Laborer
- Cement Mason
- Electrician - \$57,741
- Electronic Systems Technician
- Glazier - \$37,610
- HVAC - \$42,026
- Insulation Worker - \$52,827
- Instrumentation - \$67,380
- Metal Building Assembler
- Millwright - \$62,062
- Heavy Equipment Operator - \$64,843
- Painter - \$38,830
- Pipefitter - \$59,558
- Plumber - \$51,830
- Power Line Erector - \$70,217
- Roofer
- Sheet Metal Worker - \$49,189
- Sprinkler Fitter - \$59,072
- Welder - \$70,535





# Certificates & Credentials

## U.S. Department of Labor, Office of Apprenticeship Certificate of Completion

### REQUIRED LEARNING

On-the-Job Training  
2,000 Hours/Level of  
Study

Related Classroom  
Instruction  
4-year, 3-year, 2-year  
programs

*The United States Department of Labor*  
**Office of Apprenticeship**  
**Certificate of Completion of Apprenticeship**


*This is to certify that*

*has completed an apprenticeship for the occupation*  
**Sheet Metal Worker**  
*under the sponsorship of*  
**Associated Builders and Contractors of Indiana/Kentucky**  
**Indianapolis, Indiana**  
*in accordance with the basic standards of apprenticeship*  
*established by the Secretary of Labor*

*Secretary of Labor*  
*Assistant Secretary of Labor*

*Signature*  
*Date Completed* August 22, 2014





# Certificates & Credentials

## ABC of Indiana/Kentucky Craft Professional Certificate

### REQUIRED LEARNING

Craft Knowledge  
Trade Related Theory  
Skill Acquisition  
Hands on Learning  
Performance Testing

### The undersigned do hereby confer this *Certificate of Completion*

Awarded by the Associated Builders and Contractors upon the Recommendation of the  
ABC Apprenticeship Trust and presented to:

*John Alexander*

Has successfully completed the studies and examinations required by the  
Associated Builders and Contractors Apprenticeship Program, to achieve the status of

*«Trade» Craft Professional*  
with all the rights, privileges and honors pertaining thereto.



Mr. Rick Griffin  
Indiana Apprenticeship Trust: Chairperson



Indiana/Kentucky  
Chapter

Granted on: May 15<sup>th</sup>, 2015



Mr. Charles Henry  
ABC of Indiana/Kentucky Chairman of the Board



# NCCER ACCREDITED



The Standard for Developing Craft Professionals

**2015 NCCER**  
CURRICULUM CATALOG

DEVELOPED BY THE INDUSTRY, FOR THE INDUSTRY  
Benchmark, competency-based curricula for programs



Accredited Training Sponsor



Accredited Assessment Center

Textbooks  
revised every  
5 years by  
Subject Matter  
Experts!





# Certificates & Credentials

## NCCER Credentials, Certificates, and Transcripts

NATIONAL CENTER FOR CONSTRUCTION EDUCATION AND RESEARCH  
12000 HWY 400, Suite 100  
Dallas, TX 75243  
Phone: 214-761-1000  
Fax: 214-761-1001  
www.nccer.org

**Official Transcript**

Page: 1  
Name: John Smith  
ID: 123456789  
DOB: 01/01/1980  
Email: john.smith@nccer.org

Course / Description	Instructor	Training Location
0010-01 Basic Safety	Don Wright	NCCER
0010-02 Basic Safety	Don Wright	NCCER
0010-03 Introduction to Construction Math	Don Wright	NCCER
0010-04 Introduction to Construction Math	Don Wright	NCCER
0010-05 Introduction to Power Tools	Don Wright	NCCER
0010-06 Introduction to Blueprints	Don Wright	NCCER
0010-07 Basic Construction Skills	Don Wright	NCCER

NO ENTRIES BELOW THIS LINE

National Center for Construction  
Education and Research  
This is to certify that  
**John Smith**  
has fulfilled the requirements for  
**Core Curricula**  
in the NCCER's standardized training curriculum  
this thirty-first day of July, 2003

*Donald E. Wright*  
President

NATIONAL CENTER  
FOR CONSTRUCTION  
EDUCATION AND RESEARCH  
John Smith  
123456789

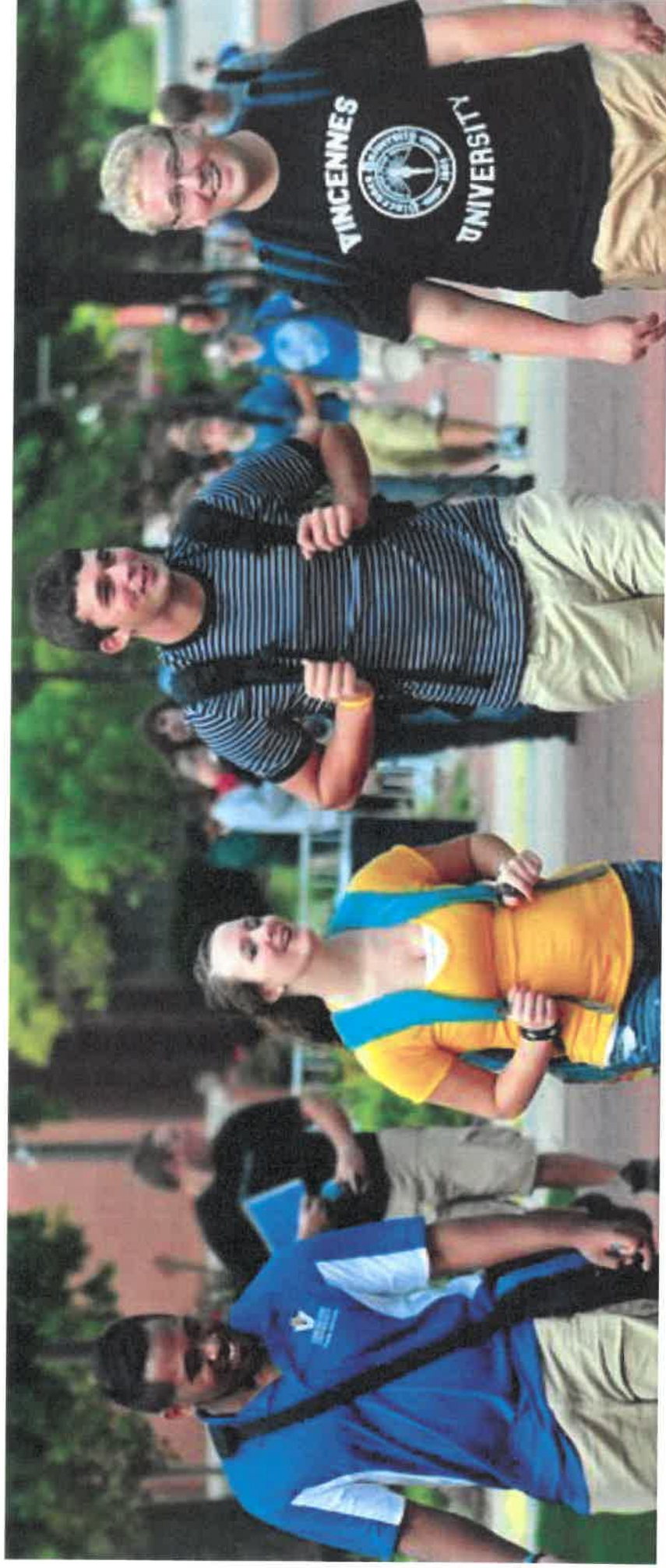
**PORTABLE**

*Donald E. Wright*  
President

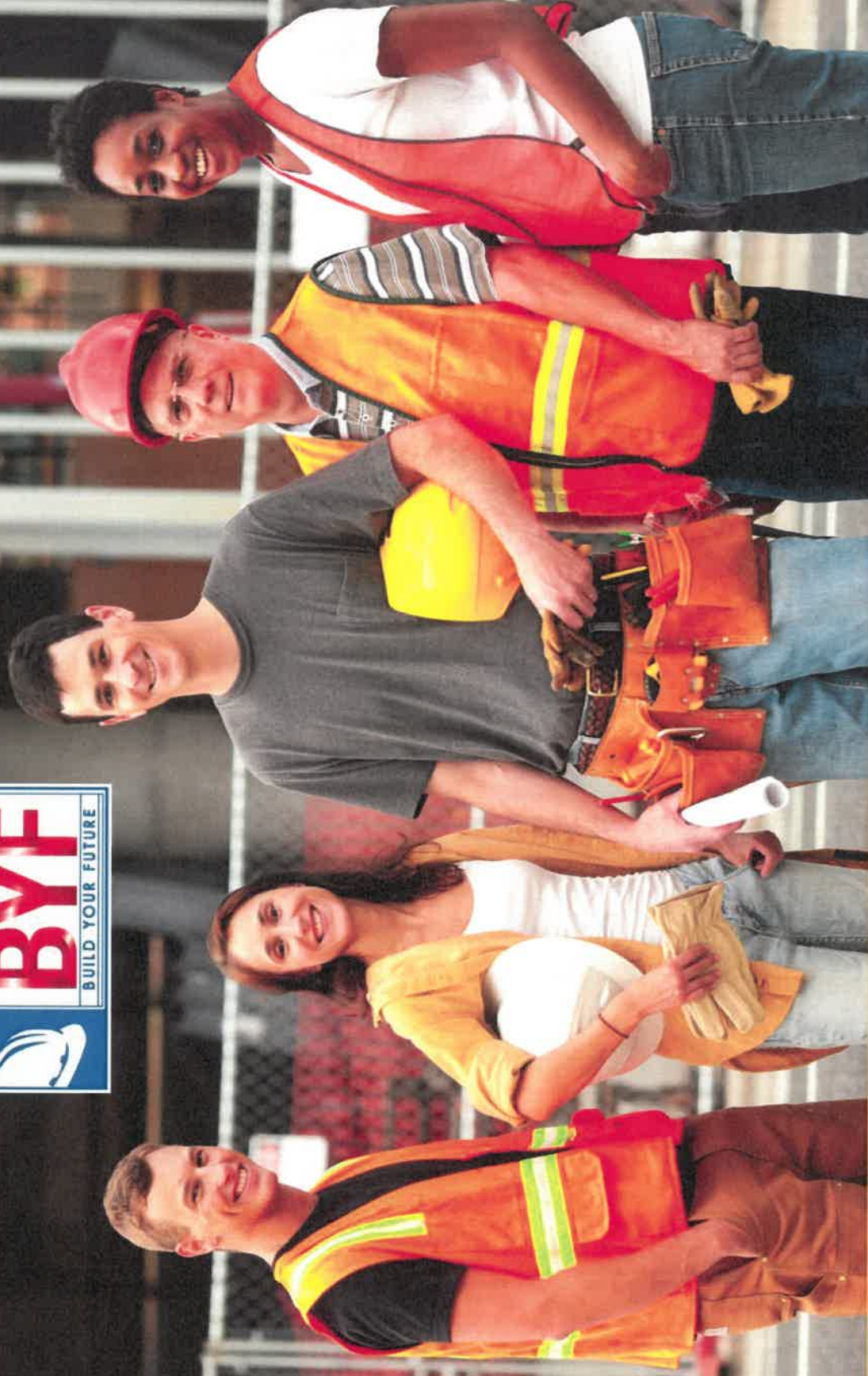




## ASSOCIATE OF SCIENCE CAREER/TECH DEGREE







- MAKE SECONDARY SCHOOLS A PRIORITY
- CHANGE PUBLIC'S NEGATIVE PERCEPTIONS
  - PROVIDE A CAREER PATH

# University Connections

